

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	EP "0769687"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2009/07/20 15:32
S2	0	EP0769687	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2009/07/20 15:32
S3	1	JP "2001163631"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2009/07/20 16:46
S4	0	JP2001163631	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2009/07/20 16:49
S5	1	JP "2001163631"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2009/07/20 16:49
S6	1	JP "11350539"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2009/07/20 16:50
S7	1455	(65/377,385,411,413,421,435,475,484,531).ccls.	US-PGPUB; USPAT	ADJ	ON	2009/10/28 13:25
S8	85	S7 and ((fiber or preform) near3 weight)	US-PGPUB; USPAT	ADJ	ON	2009/10/28 13:26
S9	22	S8 and (oscillation or frequency or vibration)	US-PGPUB; USPAT	ADJ	ON	2009/10/28 13:27
S10	2	S7 and (((fiber or preform) near3 weight) near6 (oscillation or frequency or vibration))	US-PGPUB; USPAT	ADJ	ON	2009/10/28 13:32
S11	89	((((fiber or preform) near3 weight) near6 (oscillation or frequency or vibration))	US-PGPUB; USPAT	ADJ	ON	2009/10/28 13:33

S12	8272	((fiber or preform) near3 weight) and (oscillation or frequency or vibration))	US-PGPUB; USPAT	ADJ	ON	2009/10/28 13:34
S13	439	((fiber or preform) near3 weight) and (oscillation or frequency or vibration))	EPO; JPO; DERWENT	ADJ	ON	2009/10/28 13:34
S14	23	((optical fiber or optical preform) near3 weight) and (oscillation or frequency or vibration))	EPO; JPO; DERWENT	ADJ	ON	2009/10/28 13:34
S15	2	EP "769687"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2009/10/28 13:42
S16	2	JP "2001163631" A	EPO; JPO; DERWENT	ADJ	ON	2009/10/28 13:54
S17	1455	(65/377,385,411,413,421,435,475,484,531).cls.	US-PGPUB; USPAT	ADJ	ON	2009/10/28 16:39
S18	0	S17 and (oscillation near6 current near6 magnet)	EPO; JPO; DERWENT	ADJ	ON	2009/10/28 16:39
S19	0	S17 and ((oscillation or frequency or vibration) near6 current near6 magnet)	EPO; JPO; DERWENT	ADJ	ON	2009/10/28 16:39
S20	0	S17 and ( current near6 magnet)	EPO; JPO; DERWENT	ADJ	ON	2009/10/28 16:40
S21	0	S17 and (((oscillation or frequency or vibration) near6 current) and magnet)	EPO; JPO; DERWENT	ADJ	ON	2009/10/28 16:40
S22	0	S17 and ((oscillation or frequency or vibration) near6 current near6 magnet)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/10/28 16:40
S23	1	S17 and (((oscillation or frequency or vibration) near6 current) and magnet)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/10/28 16:41
S24	5	S17 and (((oscillation or frequency or vibration)) and magnet)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/10/28 16:41
S25	11	S17 and magnet	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/10/28 16:44
S26	203	"65".clas. and magnet	US-PGPUB; USPAT	ADJ	ON	2009/10/28 16:46
S27	106	"203" near6 (((induc\$4 or forc\$4 or creat\$4) near3 (oscillat\$4 or frequency or vibrat\$4))	US-PGPUB; USPAT	ADJ	ON	2009/10/28 16:47

S28	12	S26 and ((induc\$4 or forc\$4 or creat\$4) near3 (oscillat\$4 or frequency or vibrat\$4))	US-PGPUB; USPAT	ADJ	ON	2009/10/28 16:47
S29	19360	magnet and ((induc\$4 or forc\$4 or creat\$4) near3 (oscillat\$4 or frequency or vibrat\$4))	US-PGPUB; USPAT	ADJ	ON	2009/10/28 16:53
S30	12	S29 and "65".clas.	US-PGPUB; USPAT	ADJ	ON	2009/10/28 16:54
S31	1182	magnet near6 ((induc\$4 or forc\$4 or creat\$4) near3 (oscillat\$4 or frequency or vibrat\$4))	US-PGPUB; USPAT	ADJ	ON	2009/10/28 16:55
S32	46	S31 and fourier	US-PGPUB; USPAT	ADJ	ON	2009/10/28 16:57
S33	118	S31 and solenoid	US-PGPUB; USPAT	ADJ	ON	2009/10/28 17:45
S34	6	S31 and solenoid and fourier	US-PGPUB; USPAT	ADJ	ON	2009/10/28 17:45
S35	27	pressurized air near6 ((induc\$4 or forc\$4 or creat\$4) near3 (oscillat\$4 or frequency or vibrat\$4))	US-PGPUB; USPAT	ADJ	ON	2009/10/28 17:51
S36	40	pressurized air near10 ((induc\$4 or forc\$4 or creat\$4) near3 (oscillat\$4 or frequency or vibrat\$4))	US-PGPUB; USPAT	ADJ	ON	2009/10/28 17:54
S37	1	"4453170".pn.	US-PGPUB; USPAT	ADJ	ON	2009/10/28 18:27
S38	1	"7461524".pn.	US-PGPUB; USPAT	ADJ	ON	2009/10/28 18:35
S39	1	"6922514".pn.	US-PGPUB; USPAT	ADJ	ON	2009/10/28 18:38
S40	1485	(65/377,385,411,413,421,435,475,484,531).ccls.	US-PGPUB; USPAT	ADJ	ON	2010/05/20 14:46
S41	475	S40 and (oscillat\$4 or frequency or vibrat\$4)	US-PGPUB; USPAT	ADJ	ON	2010/05/20 14:48
S42	27	S41 and ((measur\$4 or calculat\$4 or determin\$4) near3 (weight or mass))	US-PGPUB; USPAT	ADJ	ON	2010/05/20 14:49
S43	279	(chemical vapor deposition or cvd) and ((measur\$4 or calculat\$4 or determin\$4) and (weight or mass))	EPO; JPO; DERWENT	ADJ	ON	2010/05/20 14:51
S44	0	S43 and (oscillat\$4 or frequency or vibrat\$4)	US-PGPUB; USPAT	ADJ	ON	2010/05/20 14:52

S45	34	S43 and (oscillat\$4 or frequency or vibrat\$4)	EPO; JPO; DERWENT	ADJ	ON	2010/05/20 14:52
S46	433	((quartz crystal microbalance) or QCM) and ((chemical vapor deposition) or (cvd))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 12:33
S47	107	S46 and (oscillation or vibration)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 12:34
S48	32	S46 and ((oscillation or vibration) same (weight or mass))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 12:34
S49	2	S48 and (optical fiber)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 12:34
S50	98	S47 and (weight or mass)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 12:50
S51	12	S50 and (optical fiber or optical fibre)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 12:59
S52	38	((quartz crystal microbalance) or QCM) and ((chemical vapor deposition) or (cvd)) and (optical fiber or optical fibre)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 13:08
S53	14	("3528851"   "3891873"   "4383194"   "4433264"   "4692658"   "4848643").PN. OR ("5233261").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 13:23
S54	1	S53 and (optical adj (fiber or fibre))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 13:23
S55	78	((quartz crystal microbalance) or QCM) and ((chemical vapor deposition) or (cvd)) and (optical adj (waveguide or fiber or fibre or guide))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 13:24
S56	40	S55 not S52	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 13:25
S57	85	((quartz crystal microbalance) or QCM) same (optical adj (waveguide or fiber or fibre or guide))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 13:54
S58	2	JP "2004291090"	EPO; JPO; DERWENT	ADJ	ON	2010/05/25 15:14
S59	0	JP2004-291090	EPO; JPO; DERWENT	ADJ	ON	2010/05/25 15:17
S60	2	JP "2004291090"	EPO; JPO; DERWENT	ADJ	ON	2010/05/25 15:17

S61	0	JP "200343037"	EPO; JPO; DERWENT	ADJ	ON	2010/05/25 15:23
S62	0	JP "200343037"	EPO; JPO; DERWENT	ADJ	ON	2010/05/25 15:24
S63	0	JP "200343037"	EPO; JPO; DERWENT	ADJ	ON	2010/05/25 15:24
S64	0	JP200343037	EPO; JPO; DERWENT	ADJ	ON	2010/05/25 15:24
S65	0	JP2002122600	EPO; JPO; DERWENT	ADJ	ON	2010/05/25 15:24
S66	0	JP0599827	EPO; JPO; DERWENT	ADJ	ON	2010/05/25 15:24
S67	4	((quartz crystal microbalance) or QCM) and ((chemical vapor deposition) or (cvd))	EPO; JPO; DERWENT	ADJ	ON	2010/05/25 16:08
S68	6	((quartz crystal microbalance) or QCM) and (optical adj (waveguide or fiber or fibre or guide))	EPO; JPO; DERWENT	ADJ	ON	2010/05/25 16:10
S69	9	"65".clas. and ((quartz crystal microbalance) or QCM)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 16:15
S70	0	JP "2003057171"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 16:22
S71	2	JP "2003057171"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2010/05/25 16:22
S72	14	EP "0326291"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2010/05/25 16:23
S73	14	S72 and ((quartz crystal microbalance) or QCM)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 16:23
S74	8	preform and ((quartz crystal microbalance) or QCM)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/25 16:28

S75	1	"4778500".pn.	US-PGPUB; USPAT	ADJ	ON	2010/05/27 11:11
S76	36	((quartz crystal microbalance) or QCM) and (magnet\$3) and solenoid	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 15:31
S77	84	((quartz crystal microbalance) or QCM).AB.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 15:34
S78	0	S77 and (pressur\$4 air)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 15:34
S79	1	S77 and (pressur\$4 near3 air)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 15:34
S80	1	S77 and (pressur\$4 near5 air)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 15:35
S81	3	((quartz crystal microbalance) or QCM) same (pressur\$4 near5 air)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 15:35
S82	974	((quartz crystal microbalance) or QCM) and (magnet\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 15:36
S83	614	((quartz crystal microbalance) or QCM) and (magnet\$3) and current and signal	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 15:37
S84	42	((quartz crystal microbalance) or QCM) and ((magnet\$3) same current) and (current same signal)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 15:37
S85	0	S77 and ((magnet\$3) same current) and (current same signal)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 15:46
S86	5	S77 and (magnet\$3) and (current and signal)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 15:47
S87	4	("4294105").PN. OR ("5946795").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 16:33
S88	85	((quartz crystal microbalance) or QCM) and solenoid	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:07
S89	0	((quartz crystal microbalance) or QCM) and solenoid and (pressur\$6 air)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:08
S90	6	((quartz crystal microbalance) or QCM) and solenoid and (pressur\$6 air)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:08
S91	0	((quartz crystal microbalance) or QCM) and ((oscillat\$4 or vibrat\$4) near6 (pressur\$6 air))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:10

S92	0	((quartz crystal microbalance) or QCM) and ((oscillat\$4 or vibrat\$4) same (pressur\$6 air))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:10
S93	0	((quartz crystal microbalance) or QCM) and ((oscillat\$4 or vibrat\$4) same (pneumatic))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:11
S94	26	((quartz crystal microbalance) or QCM) and ((oscillat\$4 or vibrat\$4) same (pneumatic))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:11
S95	24	((quartz crystal microbalance) or QCM) and ((oscillat\$4 or vibrat\$4) near6 (pneumatic))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:11
S96	85	((quartz crystal microbalance) or QCM) and solenoid	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:24
S97	2	((quartz crystal microbalance) or QCM) and (solenoid near3 current)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:24
S98	6	((quartz crystal microbalance)) and (solenoid near6 current)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:24
S99	26	((quartz crystal microbalance)) and (solenoid same (current or signal))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:25
S100	3	(induce oscillation) near6 (solenoid)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:28
S101	7	(induce oscillation) same (solenoid)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:29
S102	1	(induce oscillation) same (solenoid) and pneumatic	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:30
S103	1	(induce oscillation) and (solenoid) and pneumatic	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:30
S104	18	(induce near3 oscillation) and (solenoid) and pneumatic	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:30
S105	4	(induce near3 oscillation) near6 (solenoid)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:31
S106	0	(induce near3 oscillation) near6 (pressur\$4 adj air)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:33
S107	1	(induc\$4 near3 oscillat\$4) near6 (pressur\$4 adj air)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:33
S108	2	(induc\$4 near6 oscillat\$4) near9 (pressur\$4 adj air)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:33

S109	225	(oscillat\$4) near6 (pressur\$4 adj air)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:38
S110	122	(oscillat\$4) near3 (pressur\$4 adj air)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:39
S111	0	S110 and ((quartz crystal microbalance) or QCM)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:39
S112	1	S110 and (optical fiber)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:39
S113	0	S110 and "65".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:43
S114	0	S110 and "65".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/27 17:43
S115	8914	(optical fiber) near3 (position)	US-PGPUB; USPAT	ADJ	ON	2010/05/27 17:51
S116	1882	(optical fiber) same ((calculat\$4 or determin\$4) near3 position)	US-PGPUB; USPAT	ADJ	ON	2010/05/27 17:52
S117	977	(optical fiber) same ((calculat\$4 or determin\$4) near3 distance)	US-PGPUB; USPAT	ADJ	ON	2010/05/27 17:52
S119	45	(optical fiber) same ((calculat\$4 or determin\$4) near3 distance near3 signal)	US-PGPUB; USPAT	ADJ	ON	2010/05/27 17:53
S120	42	S119 and ((light or optical) near3 (signal))	US-PGPUB; USPAT	ADJ	ON	2010/05/27 17:53
S121	977	(optical fiber) same ((calculat\$4 or determin\$4) near3 distance)	US-PGPUB; USPAT	ADJ	ON	2010/05/31 11:41
S122	625	S121 and ((light or optical) near3 (signal))	US-PGPUB; USPAT	ADJ	ON	2010/05/31 11:41
S123	25	(optical fiber) same ((calculat\$4 or determin\$4) near3 distance near3 (substrate or target or preform))	US-PGPUB; USPAT	ADJ	ON	2010/05/31 11:41
S124	21	S123 and ((light or optical) near3 (signal))	US-PGPUB; USPAT	ADJ	ON	2010/05/31 11:41
S125	263	"65".clas. and ((calculat\$4 or determin\$4) near3 distance)	US-PGPUB; USPAT	ADJ	ON	2010/05/31 11:51
S126	1	"65".clas. and (((calculat\$4 or determin\$4) near3 distance) same ((light or optical) near3 (signal)))	US-PGPUB; USPAT	ADJ	ON	2010/05/31 11:52



S127	1	"65".clas. and (((calculat\$4 or determin\$4) near6 distance) same ((light or optical) near3 (signal)))	US-PGPUB; USPAT	ADJ	ON	2010/05/31 11:52
S128	1	"65".clas. and (((calculat\$4 or determin\$4) near6 distance) same ((light or optical or luminous) near3 (signal)))	US-PGPUB; USPAT	ADJ	ON	2010/05/31 11:52
S129	47	"65".clas. and (((calculat\$4 or determin\$4) near6 distance) same ((signal)))	US-PGPUB; USPAT	ADJ	ON	2010/05/31 11:53
S130	6	"65".clas. and (((calculat\$4 or determin\$4) near6 distance) near10 ((signal)))	US-PGPUB; USPAT	ADJ	ON	2010/05/31 11:53
S131	5	"65".clas. and (((calculat\$4 or determin\$4) near3 distance) near10 ((signal)))	US-PGPUB; USPAT	ADJ	ON	2010/05/31 11:56
S132	2778	((calculat\$4 or determin\$4) near3 distance) same ((light or optical or luminous) near3 (signal)))	US-PGPUB; USPAT	ADJ	ON	2010/05/31 11:56
S133	673	S132 and ((glass near3 (substrate or preform or target)) or (optical fiber))	US-PGPUB; USPAT	ADJ	ON	2010/05/31 11:57
S134	1	"5684276".pn.	US-PGPUB; USPAT	ADJ	ON	2010/05/31 12:38

## EAST Search History (Interference)

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